

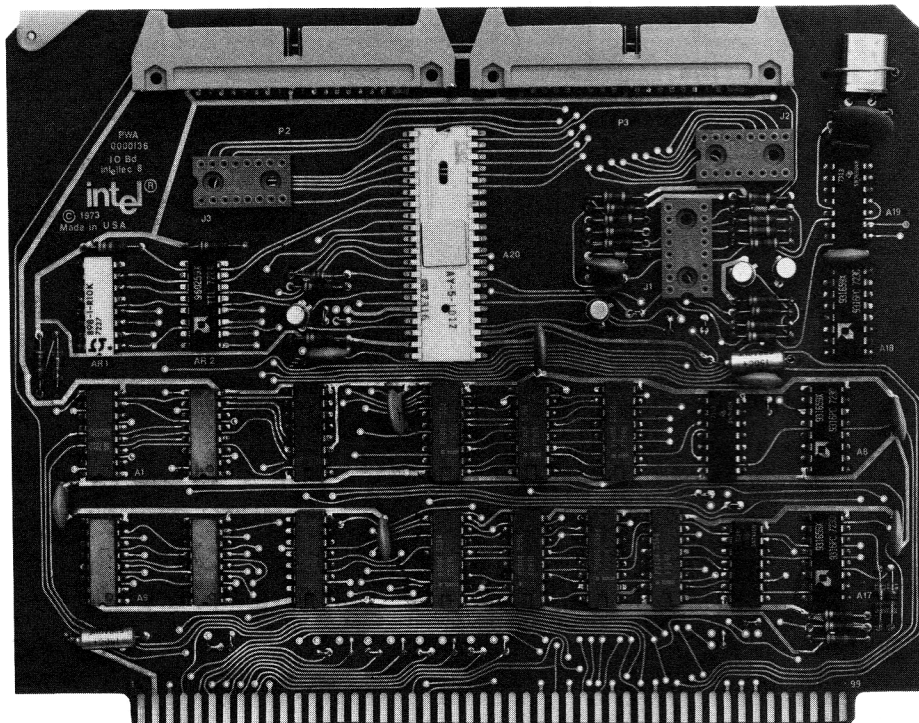
imm8-60 INPUT/OUTPUT MODULE

- Four 8-bit input ports and four 8-bit latching output ports
- TTL compatible
- Interfaces directly with imm8-82 Central Processor Module
- Teletype asynchronous transmitter/receiver and controls on board
- Transmission rates of 110 or 1200 baud
- Crystal clock for asynchronous transmitter/receiver
- Capable of high speed serial communications to 9600 baud

The imm8-60 I/O Module provides four 8-bit TTL compatible input ports and four 8-bit TTL compatible latching output ports. It interfaces directly with the imm8-82 Central Processor Module. Built-in decoding on the board provides for expansion of I/O to the maximum with the addition of one imm8-60 and two imm8-62 Output Modules (eight input ports and twenty four output ports).

For more efficient use of the imm8-82 Central Processor, an asynchronous transmitter receiver is included in the module. This frees the processor of time-consuming bit manipulation during bit serial data transmission. The transmitter receiver operates at either 110 or 1200 baud and by alteration of the basic clock frequency, data rates to 9600 baud may be obtained. The module contains drivers and receivers for connection to a teletype. These may be used with the asynchronous transmitter receiver or directly with I/O ports for bit serial transmission and reception of teletype data.

The module is configured with all common control signals bused to the module on the PC connector, while all I/O signals are available at the ribbon connectors on the top of the module.



I/O Module

I/O Module Specifications

Word Size:	8 bits
Capacity:	Four 8-bit input ports, four 8-bit output ports
I/O Interface:	Input ports: TTL compatible (complement Data In) Output ports: TTL compatible (complement Data Out)
	Communications Interface:
	Direct: TTL compatible input and output
	TTY: 20mA TTY interface with discrete transmitter and receiver
	TTY RDR Control: Discrete relay interface
Serial Communication Rate:	Crystal controlled to 110 or 1200 baud
Connector:	Dual 50-pin on 0.125 in. centers. Connectors in rack must be positioned on 0.5 in. centers min.
	Wirewrap P/N C800100 from SAE P/N VPB01C50E00A1 from CDC
	Ribbon Type P/N 3417 from 3M
Board Dimensions:	6.18 in. x 8.0 in. x 0.062 in. Board to be on 0.5 in. centers minimum.
Operating Temperature:	0°C to 55°C
DC Power Requirement:	$V_{CC} = +5V \pm 5\%$, $I_{CC} = 0.820A$ max., 0.478A Typical $V_{DD} = -9V \pm 5\%$, $I_{DD} = 0.080A$ max., 0.050 Typical $V_{GG} = -12V \pm 5\%$, $I_{GG} = 0.030A$ max., 0.016A Typical

imm 8-60 Block Diagram

